1994 BIBLIOGRAPHY

Leonardo Volume 27 and *Leonardo Music Journal* Volume 4

ABSTRACTS

BERZINA, DAINA. "*Daina,*" *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

BROWN, SHELDON. "*The Vorkapitchulator,*" **27**, No. 4 (1994).

CAIVANO, JOSÉ LUIS. "Sidelights on Visual Texture," **27**, No. 2 (1994).

DEMIAUX, BERNARD. "Binarisation Performances: Direct Intervention on the Digital Networks," **27**, No. 2 (1994).

DEUTSCH, JOHANNES. "*Symbiosis of Film and Painting,*" **27**, No. 4 (1994).

DONNEUX, JACQUES. "Electrostatic Painting," **27**, No. 1 (1994).

FOREST, FRED. "*Les Miradors De La Paix* (The Watchtowers of Peace)," **27**, No. 2 (1994).

GALEYEV, BULAT M. "*Bright Heads of Bright People,*" **27**, No. 1 (1994).

GIMAZUTDINOV, KAMIL N., and SAIFULLIN, RUSTEM F. "*Magical Kaleidophony,*" *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

HASHIMOTO, SOZO. "Computer-Generated Universal Mandalas," **27**, No. 2 (1994).

INFANTE, FRANCISCO. "An Artifact for the Rhein-Main-Dounan Canal," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

KRAFT, URSULA. "*TimeTunnel,*" **27**, No. 4 (1994).

LANIN, AUGUST. "*The Temple of All Saints Project,*" *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

MONROE, WILLIAM F. "*Flight Patterns,*" **27**, No. 1 (1994).

PADFIELD, GREG. "Chaos Design Software," **27**, No. 1 (1994).

SCOTT, JILL. "*Paradise Tossed,*" **27**, No. 1 (1994).

STOCKER, GERFRIED, and HÖRTNER, HORST. "*Winke Winke:* A Project on the Transmission of Messages," **27**, No. 4 (1994).

STUCHEBRJUKOV, BORIS. "*Razor Fabric:* The Concept of a Flexible Razor-Blade Structure," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

VAN ALLYN, KIRK. "The Contextualizer: A Sculptural Aid for Visualizing Complex Subjects," **27**, No. 1 (1994).

ART/SCIENCE FORUM

ALLEN, REBECCA; BROWN, BILL; GALLOWAY, KIT; ISKIN, RUTH E.; RABINOWITZ, SHERRIE; and SINGER, ALEX. "Design and Entertainment in the Electronic Age," **27**, No. 4 (1994).

GALEYEV, BULAT M. "Farewell Prometheus Readings: Light-Music in the Former Soviet Union," **27**, No. 4 (1994).

GALEYEV, BULAT M. "'Prometei' in the Stalin Catacombs: Festival of Light, Prague, CSFR, 28 July–4 August 1991," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

GALEYEV, BULAT M. "Russian Conference on Computer Art," **27**, No. 1 (1994).

LEVY, ELLEN K. "Complexity," **27**, No. 1 (1994).

MEIERHOFER, CHRISTINE. "UNITn," **27**, No. 1 (1994).

ARTISTS' ARTICLES

DARTON, ERIC. "Free City and the Art of Memory: The Novel as Artificial Reality," in Special Section "Virtual Reality: Venus Return or Vanishing Point," **27**, No. 4 (1994).

DOVE, TONI. "Theater Without Actors—Immersion and Response in Installation," in Special Section "Virtual Reality: Venus Return or Vanishing Point," **27**, No. 4 (1994).

HSU, NAI-WAI. "Huan Shi and Virtual Reality," in Special Section "Virtual Reality: Venus Return or Vanishing Point," **27**, No. 4 (1994).

NOLL, A. MICHAEL. "The Beginnings of Computer Art in the United States: A Memoir," **27**, No. 1 (1994).

O'SULLIVAN, DAN. "Choosing Tools for Virtual Environments," in Special Section "Virtual Reality: Venus Return or Vanishing Point," **27**, No. 4 (1994).

PETIT, M.R. "*The Mutant Gene and Tainted Kool-Aid Sideshow,*" in Special Section "Virtual Reality: Venus Return or Vanishing Point," **27**, No. 4 (1994).

PRAVDYUK, YURY ALEKSEYEVICH. "Musical Light-Painting and the Phenomenon of Form-Movement," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

SALAT, SERGE, and LABBÉ, FRANÇOISE. "The Fractal Cube and the Paradigm Shift in Art and Science," *Art and Science: Similarities, Differences and Interactions,* Special Issue: **27**, No. 3 (1994).

SHAW, JOYCE CUTLER. "*The Anatomy Lesson*: The Body, Technology and Empathy," **27**, No. 1 (1994).

SNELSON, KENNETH. "An Artist's Atom," *Art and Science: Similarities, Differences and Interactions,* Special Issue: **27**, No. 3 (1994).

STEINBERG, ROBERT. "Self-Similar Structures that Amplify Natural Patterns within Paint, and the Feelings They Awaken in the Artist," **27**, No. 2 (1994).

ARTISTS' NOTES

CELMS, VALDIS. "The Dialectic of Motion and Stasis in Kinetic Art," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

CURRAN, ALVIN. "*Music from the Center of the Earth:* Three Large-Scale Sound Installations," *Leonardo Music Journal* **4** (1994).

DYSON, FRANCES. "Radio Art in Waves," *Leonardo Music Journal* **4** (1994).

FRÉMIOT, MARCEL. "Music, Visual Arts and Mathematical Concepts,"*Art and Science: Similarities, Differences and Interactions,* Special Issue: **27**, No. 3 (1994).

FRICKE, KIERSTA. "*But Aloud She Said:* An Interactive Videodisc Installation," **27**, No. 2 (1994).

GALEYEV, BULAT M. "The First Experi-

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1994 BIBLIOGRAPHY

Leonardo Volume 27 and *Leonardo Music Journal* Volume 4

ABSTRACTS

BERZINA, DAINA. "*Daina,*" *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

BROWN, SHELDON. "*The Vorkapitchulator,*" **27**, No. 4 (1994).

CAIVANO, JOSÉ LUIS. "Sidelights on Visual Texture," **27**, No. 2 (1994).

DEMIAUX, BERNARD. "Binarisation Performances: Direct Intervention on the Digital Networks," **27**, No. 2 (1994).

DEUTSCH, JOHANNES. "*Symbiosis of Film and Painting,*" **27**, No. 4 (1994).

DONNEUX, JACQUES. "Electrostatic Painting," **27**, No. 1 (1994).

FOREST, FRED. "*Les Miradors De La Paix* (The Watchtowers of Peace)," **27**, No. 2 (1994).

GALEYEV, BULAT M. "*Bright Heads of Bright People,*" **27**, No. 1 (1994).

GIMAZUTDINOV, KAMIL N., and SAIFULLIN, RUSTEM F. "*Magical Kaleidophony,*" *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

HASHIMOTO, SOZO. "Computer-Generated Universal Mandalas," **27**, No. 2 (1994).

INFANTE, FRANCISCO. "An Artifact for the Rhein-Main-Dounan Canal," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

KRAFT, URSULA. "*TimeTunnel,*" **27**, No. 4 (1994).

LANIN, AUGUST. "*The Temple of All Saints Project,*" *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

MONROE, WILLIAM F. "*Flight Patterns,*" **27**, No. 1 (1994).

PADFIELD, GREG. "Chaos Design Software," **27**, No. 1 (1994).

SCOTT, JILL. "*Paradise Tossed,*" **27**, No. 1 (1994).

STOCKER, GERFRIED, and HÖRTNER, HORST. "*Winke Winke:* A Project on the Transmission of Messages," **27**, No. 4 (1994).

STUCHEBRJUKOV, BORIS. "*Razor Fabric:* The Concept of a Flexible Razor-Blade Structure," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

VAN ALLYN, KIRK. "The Contextualizer: A Sculptural Aid for Visualizing Complex Subjects," **27**, No. 1 (1994).

ART/SCIENCE FORUM

ALLEN, REBECCA; BROWN, BILL; GALLOWAY, KIT; ISKIN, RUTH E.; RABINOWITZ, SHERRIE; and SINGER, ALEX. "Design and Entertainment in the Electronic Age," **27**, No. 4 (1994).

GALEYEV, BULAT M. "Farewell Prometheus Readings: Light-Music in the Former Soviet Union," **27**, No. 4 (1994).

GALEYEV, BULAT M. "'Prometei' in the Stalin Catacombs: Festival of Light, Prague, CSFR, 28 July–4 August 1991," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

GALEYEV, BULAT M. "Russian Conference on Computer Art," **27**, No. 1 (1994).

LEVY, ELLEN K. "Complexity," **27**, No. 1 (1994).

MEIERHOFER, CHRISTINE. "UNITn," **27**, No. 1 (1994).

ARTISTS' ARTICLES

DARTON, ERIC. "Free City and the Art of Memory: The Novel as Artificial Reality," in Special Section "Virtual Reality: Venus Return or Vanishing Point," **27**, No. 4 (1994).

DOVE, TONI. "Theater Without Actors—Immersion and Response in Installation," in Special Section "Virtual Reality: Venus Return or Vanishing Point," **27**, No. 4 (1994).

HSU, NAI-WAI. "Huan Shi and Virtual Reality," in Special Section "Virtual Reality: Venus Return or Vanishing Point," **27**, No. 4 (1994).

NOLL, A. MICHAEL. "The Beginnings of Computer Art in the United States: A Memoir," **27**, No. 1 (1994).

O'SULLIVAN, DAN. "Choosing Tools for Virtual Environments," in Special Section "Virtual Reality: Venus Return or Vanishing Point," **27**, No. 4 (1994).

PETIT, M.R. "*The Mutant Gene and Tainted Kool-Aid Sideshow,*" in Special Section "Virtual Reality: Venus Return or Vanishing Point," **27**, No. 4 (1994).

PRAVDYUK, YURY ALEKSEYEVICH. "Musical Light-Painting and the Phenomenon of Form-Movement," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

SALAT, SERGE, and LABBÉ, FRANÇOISE. "The Fractal Cube and the Paradigm Shift in Art and Science," *Art and Science: Similarities, Differences and Interactions,* Special Issue: **27**, No. 3 (1994).

SHAW, JOYCE CUTLER. "*The Anatomy Lesson*: The Body, Technology and Empathy," **27**, No. 1 (1994).

SNELSON, KENNETH. "An Artist's Atom," *Art and Science: Similarities, Differences and Interactions,* Special Issue: **27**, No. 3 (1994).

STEINBERG, ROBERT. "Self-Similar Structures that Amplify Natural Patterns within Paint, and the Feelings They Awaken in the Artist," **27**, No. 2 (1994).

ARTISTS' NOTES

CELMS, VALDIS. "The Dialectic of Motion and Stasis in Kinetic Art," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

CURRAN, ALVIN. "*Music from the Center of the Earth:* Three Large-Scale Sound Installations," *Leonardo Music Journal* **4** (1994).

DYSON, FRANCES. "Radio Art in Waves," *Leonardo Music Journal* **4** (1994).

FRÉMIOT, MARCEL. "Music, Visual Arts and Mathematical Concepts,"*Art and Science: Similarities, Differences and Interactions,* Special Issue: **27**, No. 3 (1994).

FRICKE, KIERSTA. "*But Aloud She Said:* An Interactive Videodisc Installation," **27**, No. 2 (1994).

GALEYEV, BULAT M. "The First Experi-

© 1995 ISAST

ments of SKB 'Prometei' in Video Art," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

GALEYEV, BULAT M. "Laser Experiments of SKB 'Prometei,'" *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

ILINSKI, ROMAN, with ISKANDER, MARINA. "Interactive Graphics: The Quasi-Infernal Aspect of Creation and Perception," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

KOLEYCHUK, VYACHESLAV F., with POLYAKOFF, V. "The Evolution of My Kinetic Work," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

LAVRENTIEV, ALEXANDER. "Inventions from Photography: Light, Shadow and Optical Transformations," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

LEVINAS, MICHAËL. "Transients of Attack and Hybrid Sounds: Toward a New Mixity," *Leonardo Music Journal* **4** (1994).

RINKIS, ARTURS. "Kinetic Experiments," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

RISSET, JEAN-CLAUDE. "Sculpting Sounds with Computers: Music, Science and Technology," *Art and Science: Similarities, Differences and Interactions,* Special Issue: **27**, No. 3 (1994).

SCHIEMER, GREG. "Interactive Radio," *Leonardo Music Journal* **4** (1994).

SCHNEEMANN, CAROLEE. "The Blood Link: *Fresh Blood—A Dream Morphology* and *Venus Vectors,*" **27**, No. 1 (1994).

SETLOW, NEVA. "Art and Science: A Personal Perspective," *Art and Science: Similarities, Differences and Interactions,* Special Issue: **27**, No. 3 (1994).

SOTO, JESÚS R. "The Role of Scientific Concepts in Art," *Art and Science: Similarities, Differences and Interactions,* Special Issue: **27**, No. 3 (1994).

BIBLIOGRAPHIES

Soviet Bibliography (in English), *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

Soviet Bibliography (in Russian), *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

Leonardo Bibliography of Articles Published on the Theme "Art, Science and Technology in the Former Soviet Union," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

CD COMPANION

BIRIOTTI, LEÓN. "*Self-Portrait,*" *Leonardo Music Journal* **4** (1994).

DAL FARRA, RICARDO. "*Memorias,*" *Leonardo Music Journal* **4** (1994).

FREIRE, PABLO. "*Zeluob 3,*" *Leonardo Music Journal* **4** (1994).

IZARRA, ADINA. "*Vojm,*" *Leonardo Music Journal* **4** (1994).

MANNIS, JOSÉ AUGUSTO. "*Cyclone,*" *Leonardo Music Journal* **4** (1994).

MORALES-MANZANARES, ROBERTO. "*Servicio a Domicilio,*" *Leonardo Music Journal* **4** (1994).

POSADA, ANDRÉS. "*Catenaria,*" *Leonardo Music Journal* **4** (1994).

VÁZQUEZ, CARLOS. "*El Encanto de le Noche Tropical I: El Yunque,*" *Leonardo Music Journal* **4** (1994).

COMPACT DISC

BIRIOTTI, LEÓN. *Self-Portrait, Leonardo Music Journal* CD Series **4** (1994).

DAL FARRA, RICARDO. *Memorias, Leonardo Music Journal* CD Series **4** (1994).

FREIRE, PABLO. *Zeluob 3, Leonardo Music Journal* CD Series **4** (1994).

IZARRA, ADINA. *Vojm, Leonardo Music Journal* CD Series **4** (1994).

MANNIS, JOSÉ AUGUSTO. *Cyclone, Leonardo Music Journal* CD Series **4** (1994).

MORALES-MANZANARES, ROBERTO. *Servicio a Domicilio, Leonardo Music Journal* CD Series **4** (1994).

POSADA, ANDRÉS. *Catenaria, Leonardo Music Journal* CD Series **4** (1994).

VÁZQUEZ, CARLOS. *El Encanto de la Noche Tropical I: El Yunque, Leonardo Music Journal* CD Series **4** (1994).

CONFERENCE PAPERS

ARMS, WILLIAM Y. "The Institutional Implications of Electronic Information," in Special Section "Technology, Scholarship, and the Humanities: The Implication of Electronic Information," **27**, No. 2 (1994).

DOWLER, LAWRENCE. "The Implications of Electronic Information for National Institutions," in Special Section "Technology, Scholarship, and the Humanities: The Implication of Electronic Information," **27**, No. 2 (1994).

GRABAR, OLEG. "The Intellectual Implications of Electronic Information," in Special Section "Technology, Scholarship, and the Humanities: The Implication of Electronic Information," **27**, No. 2 (1994).

GREGORIAN, VARTAN. "Technology, Scholarship and the Humanities: The Implications of Electronic Information," in Special Section "Technology, Scholarship, and the Humanities: The Implication of Electronic Information," **27**, No. 2 (1994).

KATZ, STANLEY N., and FINK, ELEANOR. "Introduction," in Special Section "Technology, Scholarship, and the Humanities: The Implication of Electronic Information," **27**, No. 2 (1994).

LANHAM, RICHARD A. "The Implications of Electronic Information for the Sociology of Knowledge," in Special Section "Technology, Scholarship, and the Humanities: The Implication of Electronic Information," **27**, No. 2 (1994).

LOUGEE, CAROLYN C. "The Professional Implications of Electronic Information," in Special Section "Technology, Scholarship, and the Humanities: The Implication of Electronic Information," **27**, No. 2 (1994).

DOCUMENT

LLOYD-JONES, PETER. "Taste and the Greening of Design: The Role of Design Imagery in a Post-Acquisitive Society," **27**, No. 4 (1994).

EDUCATIONAL PERSPECTIVE ON THE ARTS, SCIENCES AND TECHNOLOGY

VANECHKINA, IRINA L. "'Musical Graphics' as an Instrument for Musicologists and Educators," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

ENDNOTE

LEVINE, HOWARD. "The Art of Mathematics, The Mathematics of Art," **27**, No. 1 (1994).

GATEWAY

ALBRIGHT, RON. "The Second Annual Digital Quill Awards," **27**, No. 2 (1994).

BASKAKOVA, MARINA. "What Is CREAT?" *Prometheus: Art, Science and*

Technology in the Former Soviet Union, Special Issue: **27**, No. 5 (1994).
BINKLEY, TIMOTHY. "*Leonardo* Author Timothy Binkley"(Author/Member News), **27**, No. 1 (1994).
BROWN, ROBERT A. "Electronic PictureBooks" (Author/Member News), **27**, No. 1 (1994).
BROWN, RONALD R. "*Leonardo* Author Ronald R. Brown" (Author/Member News), **27**, No. 1 (1994).
CHRISTOS, CHRISTINE. "*Leonardo* Author Christine Christos"(Author/Member News), **27**, No. 4 (1994).
CLAUS, JÜRGEN. "The SOLART Global Network 1995," **27**, No. 4 (1994).
COLLINS, BRENT. "*Leonardo* Author Brent Collins" (Author/Member News), **27**, No. 4 (1994).
GALEYEV, BULAT M. "In Memoriam: Leon Sergeyevich Theremin (1896–1993)," **27**, No. 2 (1994).
GALAYEV, BULAT M. "Schoenberg/Kandinsky Symposium and the Academy of Light," **27**, No. 1 (1994).
KISSELEV, ANATOLY. "The Association for Electroacoustic Music,"*Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).
LAVRENTIEV, ALEXANDER. "Recent Events,"*Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).
LINNIK, YURI. "Rerikh Space Art Museum," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).
LYMAN, K. "The International Computer Graphics Archive," **27**, No. 2 (1994).
MALINA, ROGER F. "In Memoriam: François Molnar, 1922–1993," **27**, No. 1 (1994).
MALINA, ROGER F. "In Memoriam: Honorary Editor Cyril Stanley Smith," **27**, No. 1 (1994).
NICOLOFF, ALEX, and NICOLOFF, MARTHA. "Encounters in the Solar Spectrum: The Nicoloffs" (Author/Member News), **27**, No. 1 (1994).
PANNUCCI, CYNTHIA. "Art and Science Collaborations, Inc.," **27**, No. 2 (1994).
PERTSEVA, T. "Conference on A.G. Gabritchevsky's Work at the State Academy of Artistic Sciences, 1921–1929," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).
RAIS, MARK. "The Estonian Music Council," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).
RAIS, MARK."Music in Estonian Life: 1991–1992," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).
RAIS, MARK. "The NYYD '92 International Festival of New Music," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).
RAIS, MARK. "The Third Congress of the CMMIA," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).
SCHNEEMANN, CAROLEE. "Carolee Schneemann's *Mortal Coils*" (Author/Member News), **27**, No. 4 (1994).
SCHNEIDER, WOLFGANG. "Computerkunst/Computer Art in Germany"(Author/Member News), **27**, No. 1 (1994).
SCHOEBER, PETER. "The Ars Electronica Center," **27**, No. 2 (1994).
SCHRYER, CLAUDE. "World Forum for Acoustic Ecology (WFAE)," **27**, No. 2 (1994).
SHIELDS, ALLAN. "*Leonardo* Member Allan Shields"(Author/Member News), **27**, No. 4 (1994).
SLORP, JOHN S. "Leonardo/ISAST Member News," **27**, No. 2 (1994).
SMITH, POSY JACKSON. "The Shearwater Foundation's Holography Program," **27**, No. 4 (1994).
SÜTTERLIN, CHRISTA. "Im Banne der Angst" (Author/Member News), **27**, No. 1 (1994).
VANECHKINA, IRINA L. "The SKB 'Prometheus' Joins the Academy of Science," **27**, No. 4 (1994).
WILSON, STEPHEN. "San Francisco State University's Conceptual Design/Information Arts Program," **27**, No. 2 (1994).
ZALIVADNY, MIKHAIL S. "In Memoriam: Rudolf Zaripov," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).
"Announcing: *Leonardo Electronic Almanac,*" **27**, No. 1 (1994).
"Behrs Receive Lindbergh Grant," **27**, No. 1 (1994).
"*The Eye: A Journal of Contemporary Art,*" **27**, No. 1 (1994).
"International Media Futures: Policy and Performance Conference, 6–8 July 1994," **27**, No. 2 (1994).
"Medien Labor München," **27**, No. 1 (1994).
"New *Leonardo* Editorial Board Member Gene Youngblood," **27**, No. 2 (1994).
"Sonic Arts Network," **27**, No. 2 (1994).
"ZKM Announces the 1993 Medienkunstpreis," **27**, No. 2 (1994).

GENERAL ARTICLES

BECKER, JUDITH. "Music and Trance," in Special Section "Sounding the Mind: Music and Cognitive Theory," *Leonardo Music Journal* **4** (1994).
BOETTCHER, WENDY; HAHN, SABRINA; and SHAW, GORDON. "Mathematics and Music: A Search for Insight into Higher Brain Function," in Special Section "Sounding the Mind: Music and Cognitive Theory," *Leonardo Music Journal* **4** (1994).
KALLICK-WAKKER, INGRID. "Science Icons: The Visualization of Scientific Truths," **27**, No. 4 (1994).
KARNOW, CURTIS E.A. "Data Morphing: Ownership, Copyright and Creation," **27**, No. 2 (1994).
MASINI, ELEONORA BARBIERI. "The Creative Role of Women in a Changing World: The Case of Women in Developing Countries," **27**, No. 1 (1994).
SPERKA, MARTIN. "The Origins of Computer Graphics in the Czech and Slovak Republics," **27**, No. 1 (1994).

HISTORICAL PERSPECTIVES ON THE ARTS, SCIENCES AND TECHNOLOGY

KOLEYCHUK, VYACHESLAV F. "The Dvizheniye Group: Toward a Synthetic Kinetic Art," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).
SHELESTOVA, ELENA. "Linking Image and Idea: The Artwork of Oleg Sokolov," *Prometheus: Art, Science and Technology in the Former Soviet Union,* Special Issue: **27**, No. 5 (1994).

INTRODUCTIONS

DAL FARRA, RICARDO. "Some Comments about Electroacoustic Music and Life in Latin America," introduction to the CD Companion section of *Leonardo Music Journal* **4** (1994).
FRICKE, KIERSTA. "Introduction: Venus Return or Vanishing Point," in Special Section "Virtual Reality: Venus Return or Vanishing Point," **27**, No. 4 (1994).
GALEYEV, BULAT M. "Prometheus: Art, Science and Technology in the Former Soviet Union," *Prometheus:*

Art, Science and Technology in the Former Soviet Union, Special Issue: **27**, No. 5 (1994).

KATZ, STANLEY N., and FINK, ELEANOR. "Introduction," in Special Section "Technology, Scholarship, and the Humanities: The Implication of Electronic Information," **27**, No. 2 (1994).

KLINKNER, MARTI. "Please Touch: An Interactive Exhibition," introduction to the *Leonardo* Gallery, **27**, No. 1 (1994).

MANDELBROJT, JACQUES. "Art and Science: Similarities, Differences and Interactions," *Art and Science: Similarities, Differences and Interactions*, Special Issue: **27**, No. 3 (1994).

PANNUCCI, CYNTHIA. "Untitled," introduction to the *Leonardo* Gallery, **27**, No. 4 (1994).

VAUGHN, KATHRYN. "Music, Cognition and Culture," in Special Section "Sounding the Mind: Music and Cognitive Theory," *Leonardo Music Journal* **4** (1994).

INVITED REVIEW

HARRISON, JOHN, and BARON-COHEN, SIMON. "Synaesthesia: An Account of Coloured Hearing," **27**, No. 4 (1994).

THE *LEONARDO* GALLERY

BRADLEY, STEVE. "*World Bank Baby* and *International Skeleton*," **27**, No. 4 (1994).

BUTLER, KEN. "*Object Opera*," **27**, No. 4 (1994).

CHAMBERS, ROBERT. "*Untitled*, " **27**, No. 4 (1994).

FRANKLIN, MARJORIE. "*Miss Violate and Her Boundaries*," **27**, No. 1 (1994).

REISER, BEVERLY, and REISER, HANS. "*Come Human! Spin in My Web*," **27**, No. 1 (1994).

RINALDO, KENNETH E., and GROSSMAN, MARK S. "*The Flock*," **27**, No. 1 (1994).

TANNENBAUM, ED. "*Do-Undo*," **27**, No. 1 (1994).

TANTERI, MATTHEW. "*Horizon*," **27**, No. 4 (1994).

VILA, DORIS. "*(A Self-Help Survival Guide to the) Global Village*," **27**, No. 4 (1994).

ZIEGLER, MARY. "*The Way*," **27**, No. 4 (1994).

MUSIC/SCIENCE FORUM

CHARLES, CHRISTOPHE. "Megalopolis Aborigines: The Tokyo-Osaka Action Art Ensemble's 1992 Tour," *Leonardo Music Journal* **4** (1994).

SHIMAZU, TAKEHITO. "The History of Electronic and Computer Music in Japan: Significant Composers and Their Works," *Leonardo Music Journal* **4** (1994).

REVIEWS

ANONYMOUS. Review of *Eternal Network: A Mail Art Anthology*, edited by Chuck Welch, **27**, No. 4 (1994).

ARNHEIM, RUDOLF. Review of *Hand and Mind: What Gestures Reveal about Thought*, by David McNeill, **27**, No. 4 (1994).

ARNHEIM, RUDOLF. Review of *Leonardo da Vinci: The Daedalian Mythmaker*, by Giancarlo Maiorino, **27**, No. 1 (1994).

ARNHEIM, RUDOLF. Review of *Spiritual Space: The Religious Architecture of Pietro Belluschi*, by Meredith Clausen, **27**, No. 4 (1994).

BATTIER, MARC. Review of GRM Tools Version 1.5, designed by Hugues Vinet, Olivier Koechlin and Didier Brisson, *Leonardo Music Journal* **4** (1994).

BATTIER, MARC. Review of *Poésies Sonores*, edited by Vincent Barras and Nicholas Zurbrugg, *Leonardo Music Journal* **4** (1994).

BAZOV, VLADISLAV. Review of *The Book of Surprises, or Natural Science from the Humanitarian Point of View, or Images of Science*, by G.D. Gatchev, in *Prometheus: Art, Science and Technology in the Former Soviet Union*, Special Issue: **27**, No. 5 (1994).

CHOUDNOVSKY, VLADIMIR. Review of *The Architecture of Weightlessness: An Invitation to Reflect*, by Yaroslav Golovanov, in *Prometheus: Art, Science and Technology in the Former Soviet Union*, Special Issue: **27**, No. 5 (1994).

GAINES, GEOFFREY. Review of *BLAM!*, Compact disc–interactive publication produced by Necro-Amalgamated, **27**, No. 4 (1994).

GALEYEV, BULAT M. Review of *Mathematics and Art*, by A. Voloshinoff, in *Prometheus: Art, Science and Technology in the Former Soviet Union*, Special Issue: **27**, No. 5 (1994).

HARTNETT, GERALD. Review of *Wireless Imagination: Sound, Radio and the Avant-Garde*, edited by Douglas Kahn and Gregory Whitehead, *Leonardo Music Journal* **4** (1994).

HORN, JOHN. Review of *Global Networks*, edited by Linda Marie Harasim, **27**, No. 4 (1994).

KHAKIMOV, EDWARD. Review of *Divine Section: Three Views on the Nature of Harmony*, by I.Sh. Shevelev, in *Prometheus: Art, Science and Technology in the Former Soviet Union*, Special Issue: **27**, No. 5 (1994).

MALINA, ROGER F. Review of *To Infinity and Beyond: A Cultural History of the Infinite*, by Eli Maor, **27**, No. 4 (1994).

MALINA, ROGER F. Review of *UNISPACE*, by the Living Visions Ensemble, Roger Davidson, composer, **27**, No. 4 (1994).

MENDÈS FRANCE, MICHEL. Review of *Les Cheveux de la Réalité*, by Jacques Mandelbrojt, **27**, No. 4 (1994).

MIKHEYEV, EVGENY V. Review of *Drawing, Drafting, Painting with Computers*, by V.V. Alexandrov and V.S. Shneyderov, in *Prometheus: Art, Science and Technology in the Former Soviet Union*, Special Issue: **27**, No. 5 (1994).

MIKHEYEV, EVGENY V. Review of *How the Machine Draws*, by Yu.V. Kotov, in *Prometheus: Art, Science and Technology in the Former Soviet Union*, Special Issue: **27**, No. 5 (1994).

MULDER, AXEL. Review of *Interactive Music Systems: Machine Listening and Composing*, by Robert Rowe, *Leonardo Music Journal* **4** (1994).

MULDER, AXEL. Review of *The Music Machine: Selected Writings from Computer Music Journal*, edited by Curtis Roads, *Leonardo Music Journal* **4** (1994).

PENNY, SIMON. Review of *ARTSAT*, by Richard Kriesche, **27**, No. 1 (1994).

PENNY, SIMON. Review of *Mobile Robots: Inspiration to Implementation*, by Anita Flynn and Joseph Jones, **27**, No. 4 (1994).

PENNY, SIMON. Review of *What Computers Still Can't Do: A Critique of Artificial Reason*, by Herbert Dreyfus, **27**, No. 1 (1994).

PIERCE, BENJAMIN. Woggles from Oz: Writing Interactive Fiction (review of Oz, an interactive fiction system under construction by a Carnegie Mellon University team led by Joseph Bates), **27**, No. 4 (1994).

ROSS, RICHARD. Review of *The Digital Word: Text-Based Computing in the Humanities*, edited by George P. Landow and Paul Delany, **27**, No. 4 (1994).

VANECHKINA, IRINA L. Review of *Entertaining Music Theory*, by G. Vinogradov and E. Krasovskaya, in *Prometheus: Art, Science and Technology in the Former Soviet Union*, Special Issue: **27**, No. 5 (1994).

VANECHKINA, IRINA L. Review of *Golden Strings*, by A. Vladimirov, in *Prometheus: Art, Science and Technology in the Former Soviet Union*, Special Issue: **27**, No. 5 (1994).

VANECHKINA, IRINA L. Review of *Music in the Family of the Muses*, by L. Tarasov, in *Prometheus: Art, Science and Technology in the Former Soviet Union*, Special Issue: **27**, No. 5 (1994).

VOLOSHINOFF, A. Review of *The Gem of Copernicus: The World of Science in Painting*, by V. Glazichev, in *Prometheus: Art, Science and Technology in the Former Soviet Union*, Special Issue: **27**, No. 5 (1994).

VORONIN, STAN. Review of *Light-Music in the System of the Arts*, by Bulat M. Galeyev, in *Prometheus: Art, Science and Technology in the Former Soviet Union*, Special Issue: **27**, No. 5 (1994).

SPACE ART

DUBOIS, KITSOU. "Dance and Weightlessness: Dancers' Training and Adaptation Problems in Microgravity," **27**, No. 1 (1994).

TECHNICAL ARTICLES

CARTERETTE, EDWARD, and KENDALL, ROGER. "On the Tuning and Stretched Octave of Javanese Gamelans," in Special Section "Sounding the Mind: Music and Cognitive Theory," *Leonardo Music Journal* **4** (1994).

FALES, CORNELIA, and MCADAMS, STEPHEN. "The Fusion and Layering of Noise and Tone: Implications for Timbre in African Instruments," in Special Section "Sounding the Mind: Music and Cognitive Theory," *Leonardo Music Journal* **4** (1994).

KIPPEN, JAMES, and BEL, BERNARD. "Computers, Composition and the Challenge of 'New Music' in Modern India," in Special Section "Sounding the Mind: Music and Cognitive Theory," *Leonardo Music Journal* **4** (1994).

MASON, STEPHANIE, and SAFFLE, MICHAEL. "L-Systems, Melodies and Musical Structure," *Leonardo Music Journal* **4** (1994).

ULIANICH, VICTOR. "Project FORMUS: Sonoric Space-Time and the Artistic Synthesis of Sound," in Special Section "Prometheus Extended: Music and Technology in the Former Soviet Union," *Leonardo Music Journal* **4** (1994).

VOISIN, FRÉDÉRIC. "Musical Scales in Central Africa and Java: Modeling by Synthesis," in Special Section "Sounding the Mind: Music and Cognitive Theory," *Leonardo Music Journal* **4** (1994).

TECHNICAL NOTE

BERGER, JONATHAN, and NICHOLS, CHARLES. "Brahms at the Piano: An Analysis of Data from the Brahms Cylinder," *Leonardo Music Journal* **4** (1994).

THEORETICAL PERSPECTIVES ON THE ARTS, SCIENCES AND TECHNOLOGY

ALCOPLEY, L. "Art, Science and Human Being," *Art and Science: Similarities, Differences and Interactions*, Special Issue: **27**, No. 3 (1994).

CARERI, GIORGIO. "Discovering by Perceiving in Art and Science," *Art and Science: Similarities, Differences and Interactions*, Special Issue: **27**, No. 3 (1994).

CHANGEUX, JEAN-PIERRE. "Art and Neuroscience," *Art and Science: Similarities, Differences and Interactions*, Special Issue: **27**, No. 3 (1994).

COPPEL, GEORGES. "Equivocal Links between Art and Science: When Strictness Sleeps, Words Engender Epistemological Monsters," *Art and Science: Similarities, Differences and Interactions*, Special Issue: **27**, No. 3 (1994).

COYNE, RICHARD. "Heidegger and Virtual Reality: The Implications of Heidegger's Thinking for Computer Representations," **27**, No. 1 (1994).

DYENS, OLLIVIER. "The Emotion of Cyberspace: Art and Cyber-Ecology," **27**, No. 4 (1994).

ELKINS, JAMES. "Art History and the Criticism of Computer-Generated Images," **27**, No. 4 (1994).

EMMER, MICHELE. "Art and Visual Mathematics," *Art and Science: Similarities, Differences and Interactions*, Special Issue: **27**, No. 3 (1994).

ENGLER, GIDEON. "From Art and Science to Perception: The Role of Aesthetics," *Art and Science: Similarities, Differences and Interactions*, Special Issue: **27**, No. 3 (1994).

HARGITTAI, ISTVÁN, and HARGITTAI, MAGDOLNA. "The Use of Artistic Analogies in Chemical Research and Education," *Art and Science: Similarities, Differences and Interactions*, Special Issue: **27**, No. 3 (1994).

IVANOV, PAVEL B. "A Hierarchical Theory of Aesthetic Perception: Musical Scales," *Prometheus: Art, Science and Technology in the Former Soviet Union*, Special Issue: **27**, No. 5 (1994).

KAGAN, MOISEI. "Art, Science and Technology in the Past, Present and Future," *Prometheus: Art, Science and Technology in the Former Soviet Union*, Special Issue: **27**, No. 5 (1994).

LAZAREV, YEVGENY N. "The Art of Metadesign," *Prometheus: Art, Science and Technology in the Former Soviet Union*, Special Issue: **27**, No. 5 (1994).

LÉVY-LEBLOND, JEAN-MARC. "Brief Encounters: A Physicist Meets Contemporary Art," *Art and Science: Similarities, Differences and Interactions*, Special Issue: **27**, No. 3 (1994).

MANDELBROJT, JACQUES. "In Search of the Specificity of Art," *Art and Science: Similarities, Differences and Interactions*, Special Issue: **27**, No. 3 (1994).

MENDÉS FRANCE, MICHEL, and HÉNAUT, ALAIN. "Art, Therefore Entropy," *Art and Science: Similarities, Differences and Interactions*, Special Issue: **27**, No. 3 (1994).

YEVIN, IGOR. "The Synergetic Approach to Art Theory: Recent Investigations," *Prometheus: Art, Science and Technology in the Former Soviet Union*, Special Issue: **27**, No. 5 (1994).

WORDS ON WORKS

BURNETT, CHRISTOPHER. "*Muto(scape):* A Panorama of Animation Specimens," **27**, No. 1 (1994).

CHEMIN, ISABELLE, and HUBNER, GUIDO. "*Perception: Fast Forward III*," **27**, No. 1 (1994).

COOPER, GENE. "*Rupture*," **27**, No. 2 (1994).

DELAPPE, JOSEPH. "*Gulf War Memories*," **27**, No. 1 (1994).

FRITZ, DANA, and GAWEL, LARRY. "*Global Displacement Network*," **27**, No. 4 (1994).

GONZALEZ, MARISA. "*Miradas en el Tempo*," **27**, No. 2 (1994).

KERLOW, ISAAC VICTOR. "*Broken Heart (Corazón Roto)*," **27**, No. 4 (1994).

LANIER, MAX, and MCDONALD, LORA. "*Readings in Organized Chaos*," **27**, No. 4 (1994).

LIGORANO, NORA, and REESE, MARSHALL. "*Acid Migration of Culture*," **27**, No. 4 (1994).

LOWENBERG, RICHARD. "*Information Revolutions*," **27**, No. 2 (1994).

LUNDQUIST, LAURIE. "*Lagoon Project:* San Francisco Exploratorium," **27**, No. 4 (1994).

LYNCH, BART. "*Sound and Ceramics,*" **27**, No. 4 (1994).
MAGENTA, MURIEL. "*Virtual Justice,*" **27**, No. 1 (1994).
MARGRILL, ANITA. "*Peninsula Tell-Tale and Overlook,*" **27**, No. 1 (1994).
MATHEWS, JOHN D. "*Earthview:* Looking Down at Ourselves," **27**, No. 2 (1994).
MEGERT, FRANZISKA. "*Arachne-Vanitas,*" **27**, No. 2 (1994).
MOORE, STEPHEN. "*Eternity Ignored,*" **27**, No. 1 (1994).
RAPOPORT, SONYA. "*Sexual Jealousy: A Shadow of Love,*" **27**, No. 1 (1994).
SEDJAL, AZDINE. "*Maouja Menhouta (Sculpted Wave),*" **27**, No. 4 (1994).
SLAYTON, JOEL A. "*Telepresent Surveillance,*" **27**, No. 2 (1994).
TURNER, H. ANDERSON, III. "*Poking at the Environmental Fire,*" **27**, No. 2 (1994).
WILSON, STEPHEN. "*Is Anyone There?:* A Voice-Activated Tour of San Francisco Via Its Pay Telephones," **27**, No. 4 (1994).